

Mint of the United States at Philadelphia,

MELTING AND REFINING DEPARTMENT,

Philadelphia, 24 Aug. , 1882

Approximate value of Coinage of U. S. in Gold and Silver from the beginning in 1792 to 30th June 1882

	<u>Spec. Grav.</u>	<u>Wt. Cub. Inch.</u>	<u>Measure of \$ one Million</u>
Gold	17.25	4354.99 grains	5924.36 C.I.
Silver	10.30	2602.84 "	158481. "

	<u>Total Issue, value</u>	<u>Measure</u>
Gold	\$ 1300,000,000 =	4,457 C.F.
Silver	335,000,000 =	30,724 "

	<u>Size of the cube of the preceding capacity.</u>
Gold	16½ ft. on a side, nearly.
Silver	31½ ft. — " — " — " — .

The above calculations are based on one cubic Inch of Water, weighing 252.458 grains, at 62° Fahr. and 30 inches Barom.

Jas C Booth

M. & R.

1 C.T. Gold coin = 4354.9005 grains.

450 gms. water 50.4% pure gold
 $252.45 \times 19.2 = 4847.1936 = \text{grms. in 1 ct. pure gold}$

$(\$100) \text{ One Dollar gold} = 25.8$
 $\$1000 = 25800$
 $\$ \approx 4.4116197$
 $1254.8 - \$ \approx 3.6389782$

\$1,000,000 Gold Coin = 5924.36 C.I. =

$$\begin{array}{r} 1728 \\ - 3.2375437 \\ \hline \end{array}$$

$$\$1300,000,000 \text{ Gold coin} = \frac{1300}{1300} \left\{ \begin{array}{l} 0.5350978 \\ 3.1139434 \\ \hline 3.6490412 \end{array} \right\} = 4457. \text{ C.F.} = (16.4569)^3$$

Wt. of one Doll. = 412.5 grms. of \$1000 = 412500 grms. l. = 5.6154240
 l. 2602.84 3.4154475

$$\begin{array}{l} \$1,000,000 \text{ Silver coin} = \frac{158481 \text{ C.T.}}{1728} \text{ l.} = \frac{5.1999765}{\frac{2.2375437}{1.9624328}} = \text{l.} 91.7134 \text{ C.F.} \\ 1728 \text{ C.T.} = 1 \text{ C.F.} \end{array}$$
$$\$1.00 = 412.5 \text{ grns}$$

Sp. gr. of pure Silver = 10.45

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No. of Enclosures, 9